# 1 Simulation Results

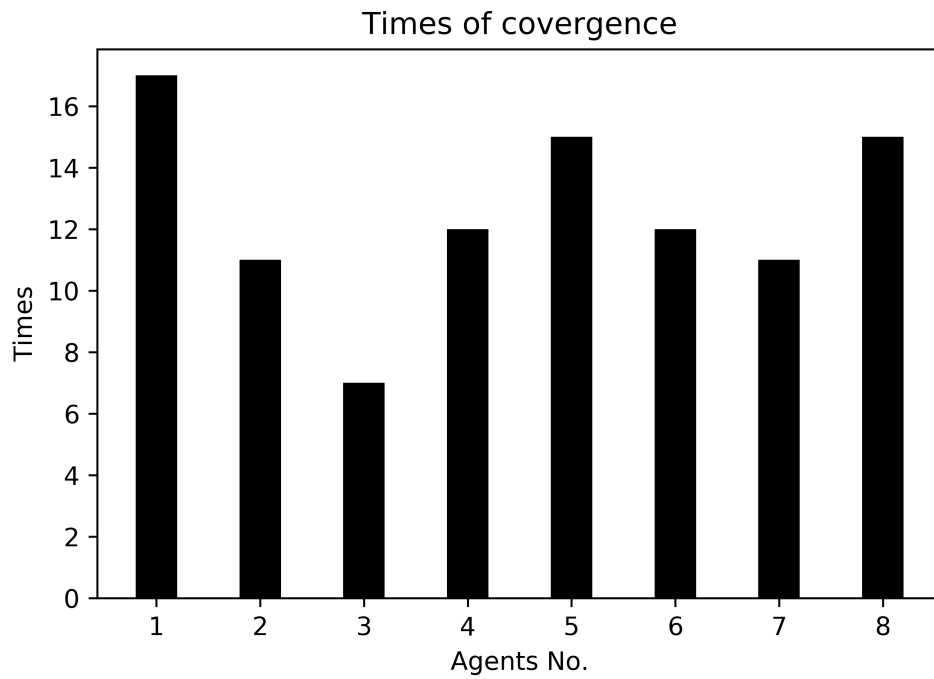## 1.1 50_3_800_100

Time used: $71.66908250172764s$



Figure 1: Where the iterations converge
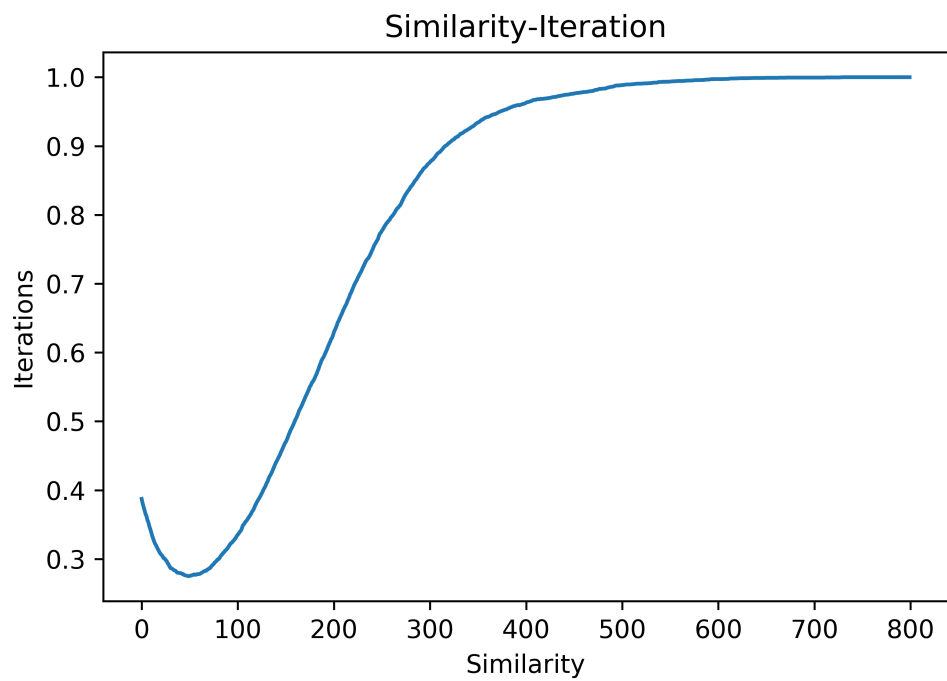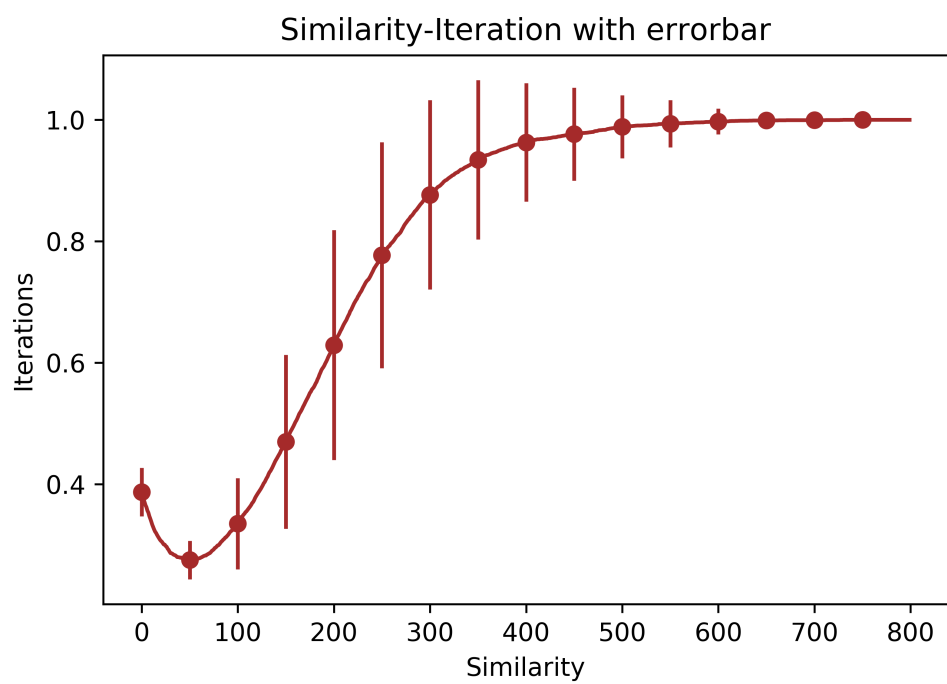
Figure 2: Similarity



Figure 3: Similarity with error bar
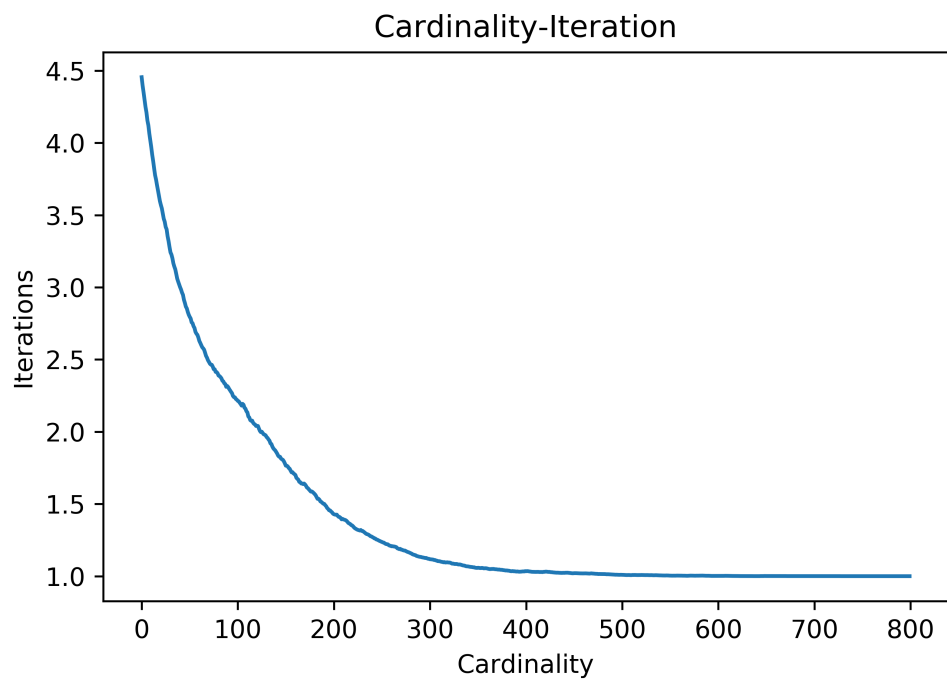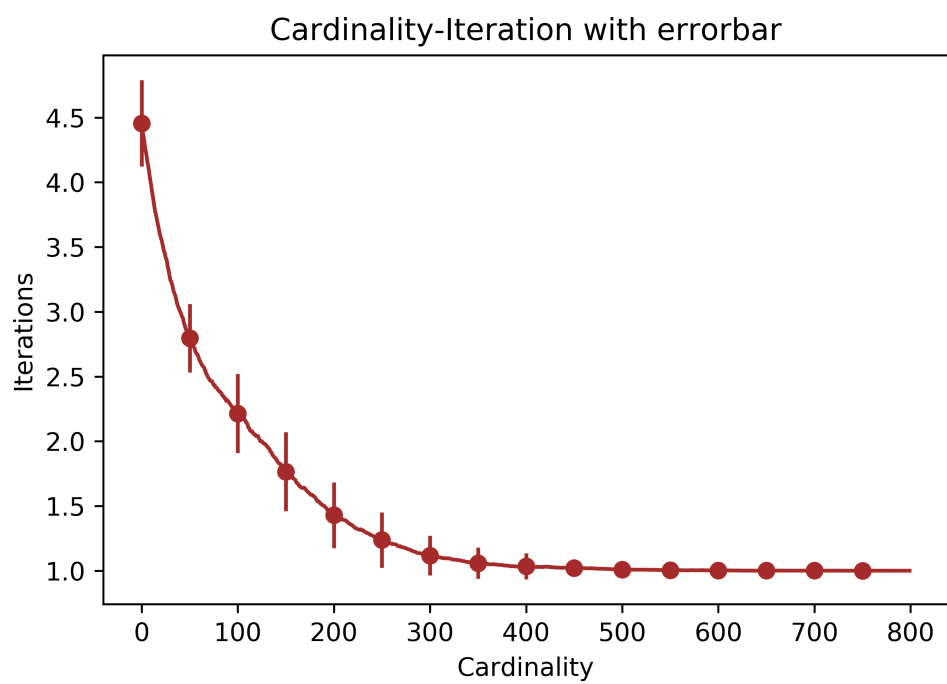
Figure 4: Cardinality



Figure 5: Cardinality with error bar

## 1.2 50_4_1000_100

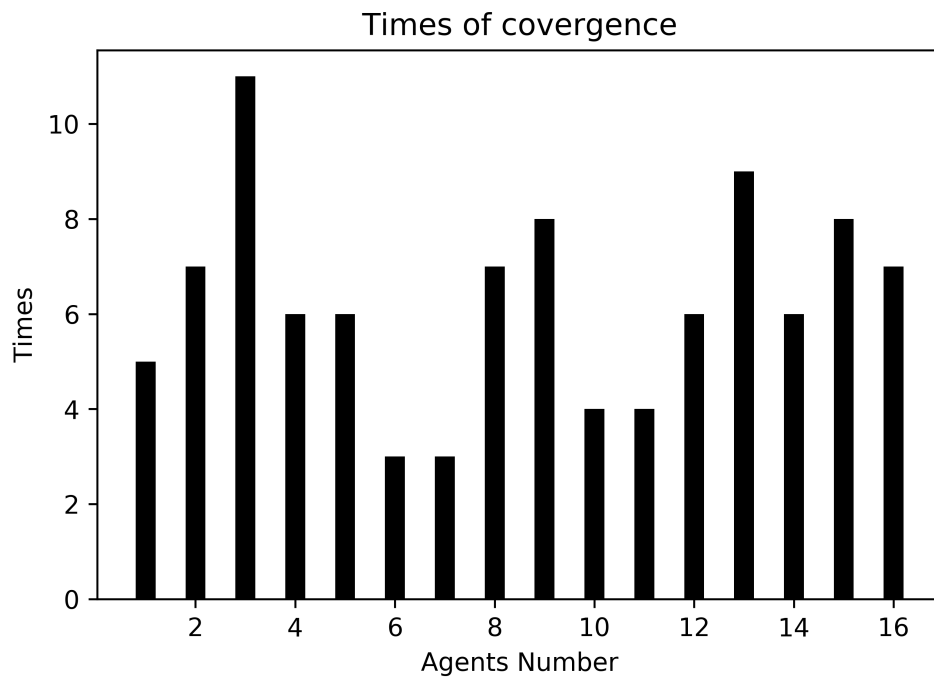Time used: $87.256231800553s$



Figure 6: Where the iterations converge
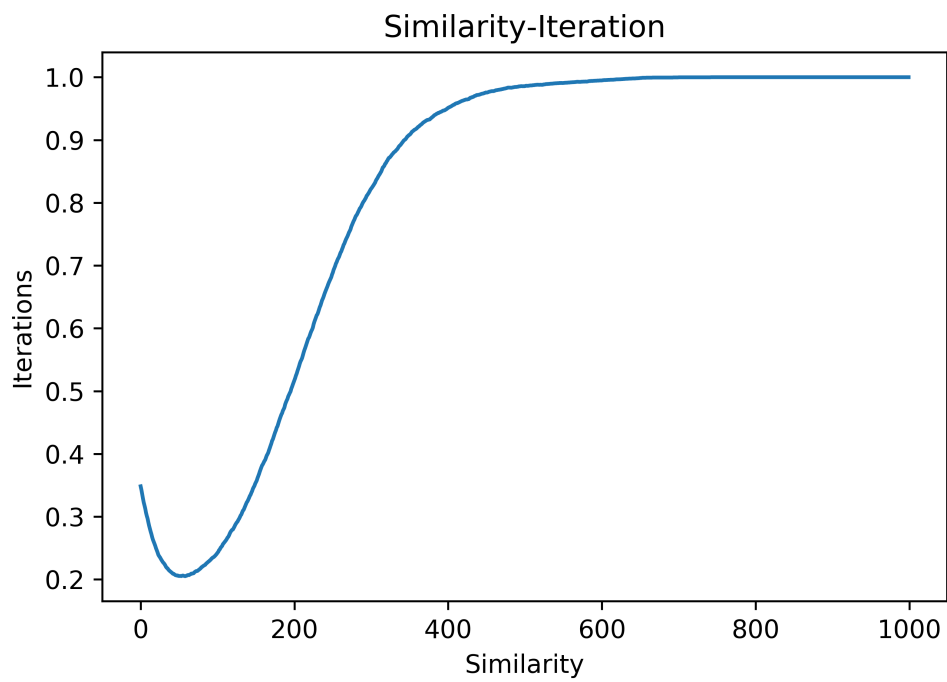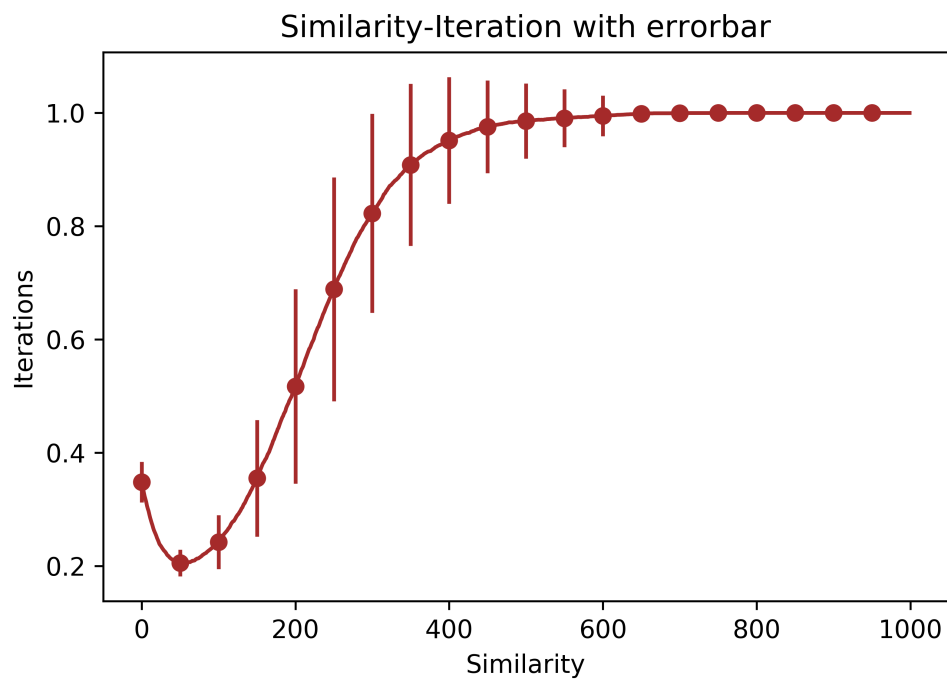


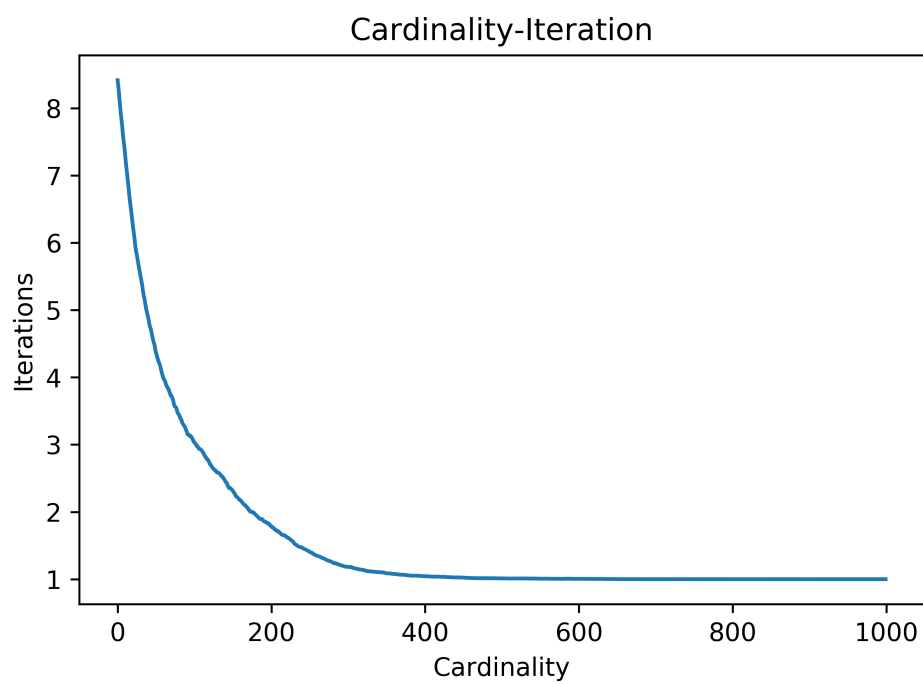Figure 7: Similarity

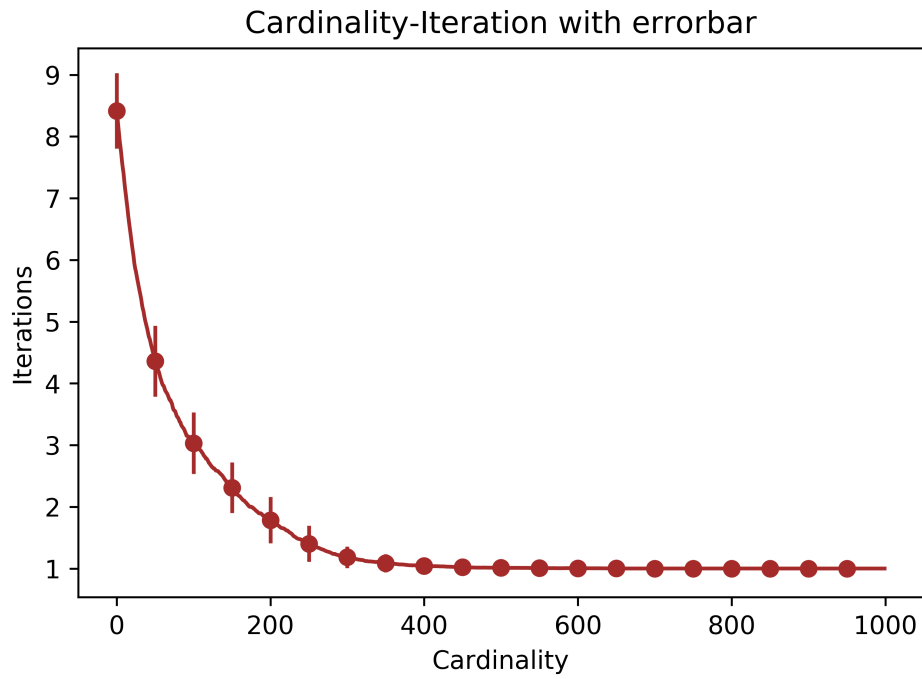Figure 8: Similarity with error bar



Figure 9: Cardinality

Figure 10: Cardinality with error bar

## 1.3 50_4_1000_300
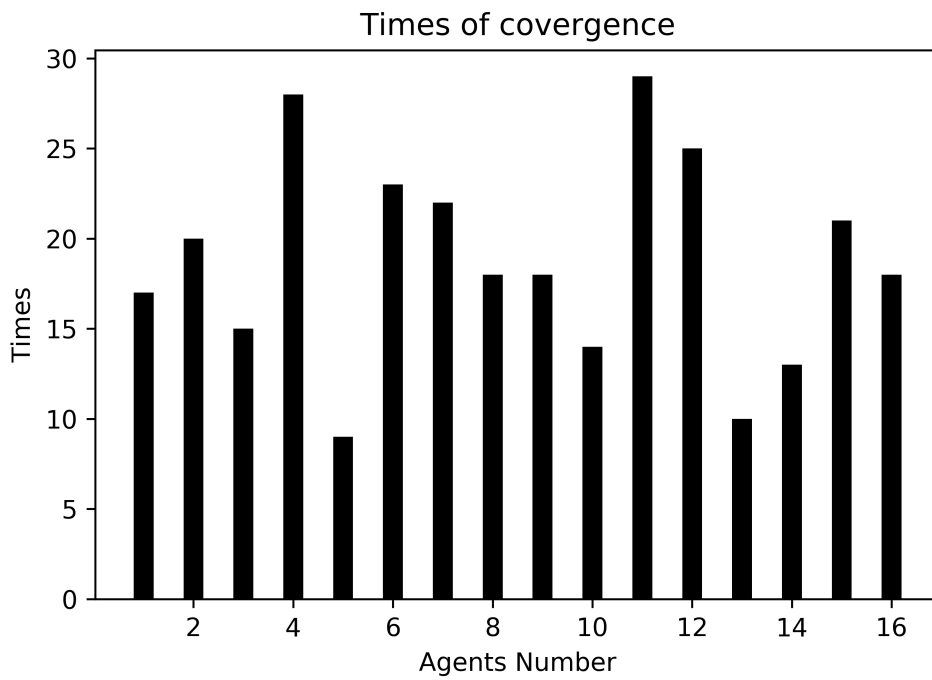
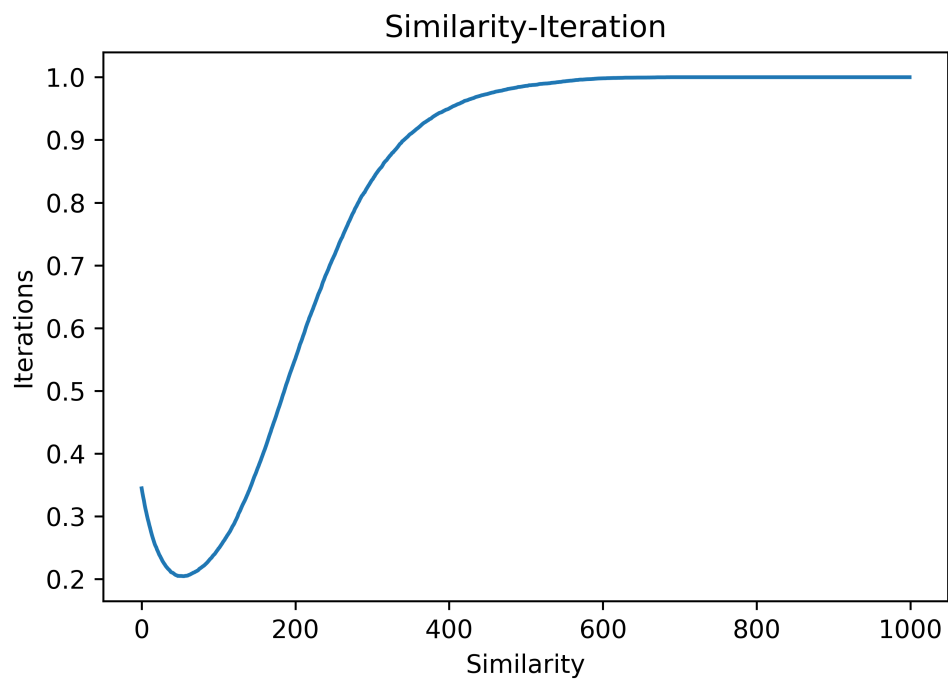Time used: 247.07707320986628



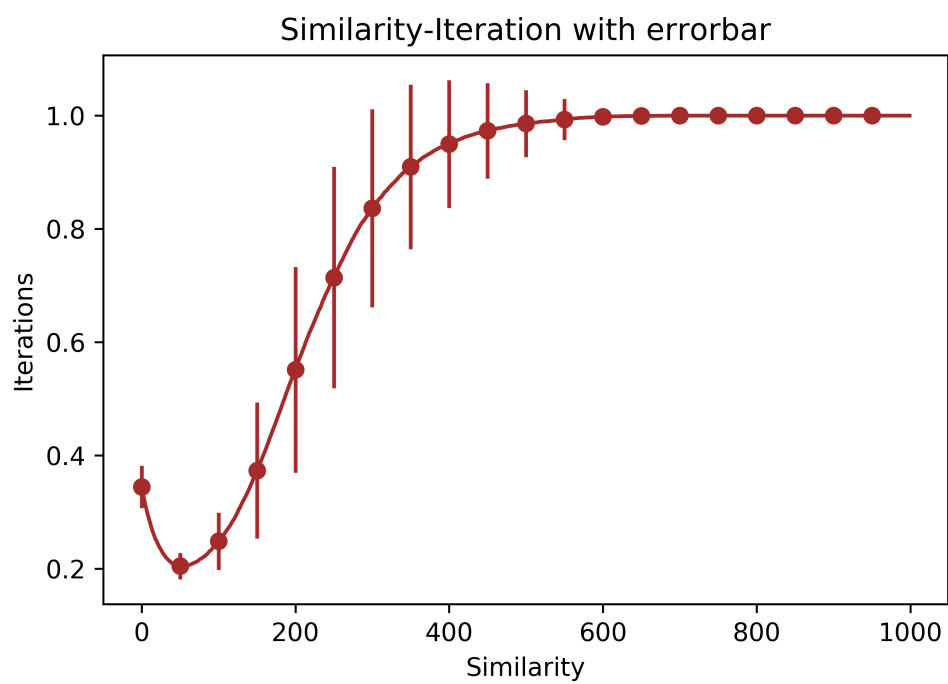Figure 11: Where the iterations converge
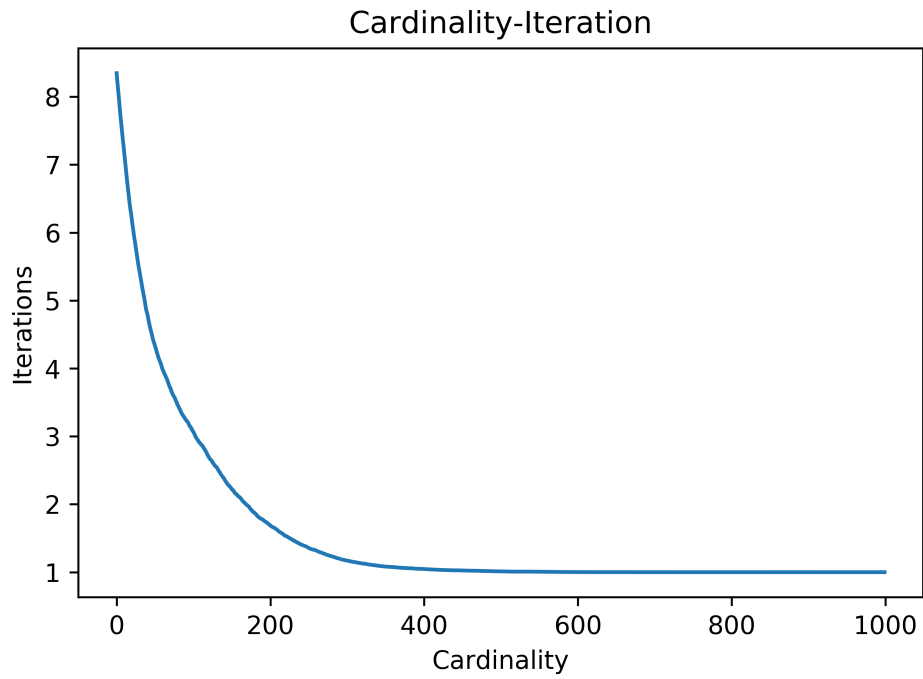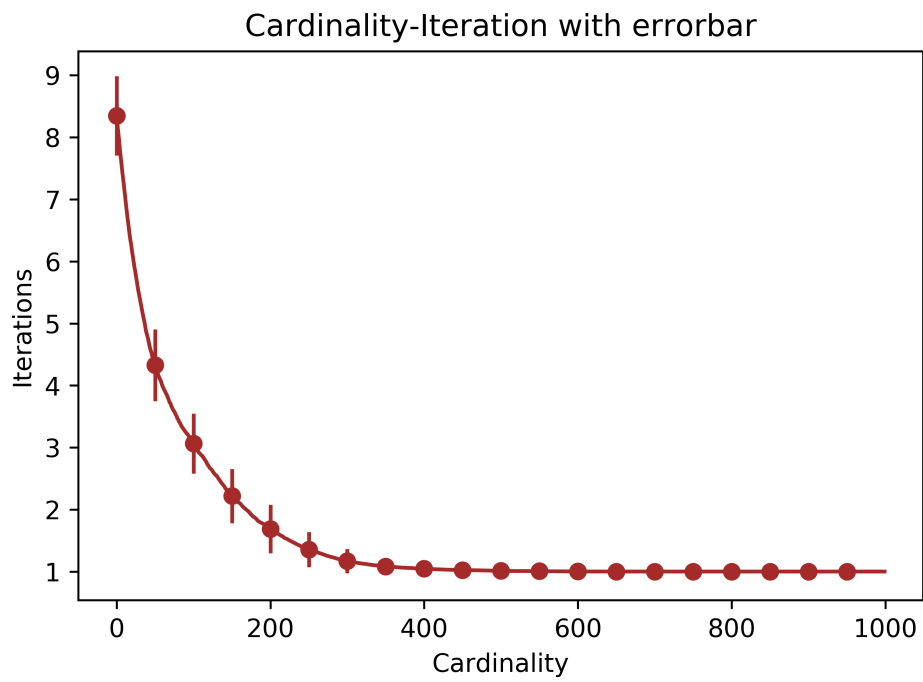
Figure 12: Similarity



Figure 13: Similarity with error bar

Figure 14: Cardinality



Figure 15: Cardinality with error bar